

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA

RELEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS, that I, Nels Undem Estate
of the County of Prairie
the State of Montana, am the owner of the hereinafter described land upon which
a well for oil or gas was drilled, to-wit:

Operator W. E. Andrau
Lease Name NPRR
Well No. 1-29 Sec. 29 Twp. 14N Rge. 51E
The well is located 660 feet SW of the South
line and 660 feet W of the East line.

That, in accordance with Regulation 233.6, Order No. 1-1-1, November 30, 1953,
I do hereby notify the Oil and Gas Conservation Commission of the State of Mon-
tana of my desire to utilize said well as a fresh water well; and, that if such
utilization is approved, I do hereby release and discharge the operator herein-
above named from any further work or responsibility in relation to the plugging
of said well.

WITNESS my hand and seal this 17 day of June 1968
Nels Undem Estate

Norman M. O'Neill Adm'r
landowner (L.S.)

Address Box 337
Curry, Montana 59349

IN THE PRESENCE OF:

Cecil N. Brown Address Terry, Montana
Gene C. Falkenstein Address Terry, Montana

APPROVED BY:

Oil and Gas Conservation Commission

Judson A. Smith
Petroleum Engineer or Executive Secretary

Dated: Jun 18 1968

RECEIVED
JUN 21 1968

COMMISSION
OF THE STATE OF MONTANA
BILLINGS

4588

T. 14 R. 51

County Prairie

33

RECEIVED
JAN 2 1962
STATE ENGINEERMONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

		X

Owner Walo Undus Address Terry, MontanaDriller Joe J. Bond Address Terry, MontanaDate Started July 5, 1961 Date Completed July 10, 1961Location: Sec. 33 T. 14 R. 51 $\frac{1}{4}$ sec. SE⁴ of the SE⁴Type of well Drilled Equipment used Cable tool
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐Industrial ☐ Drainage ☐ Other: _____Casing: 0 ft. to 16 ft. Type Steel Size 6 in.Casing: 14 ft. to 211 ft. Type Steel Size 4 in.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 192 to ft. 211 Ft. _____ to ft. _____Type of screen or perforations 5/16 in. holes cut three in. apart with torchStatic Water level, for non-flowing well: 180 down to 190 feet

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 190 feet at 5 gal. per min.How tested: with boilerLength of test for one hour

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Depth, feet		Description of Material Drilled
From	To	
0	1	Sandy loam
1	12	Sand gravel and clay
12	26	Gumbo (black)
26	48	Coal with water seep
48	83	Gumbo
83	85	Coal
85	112	7/8 Gumbo
112	114	Rock
114	128	Gumbo
128	132	Water sand with seep of water
132	144	Gumbo
144	148	Sand and seep
148	157	Gumbo
157	158	Coal
158	164	Gumbo
164	166	Sand
166	188	Coal with water seep
188	192	Gumbo
192	211	Water sand
211	-----	Rock

82795

CW2

File No.

DUPLICATE

T. 14 N. R. 51 E.

County. Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level)

Sandy Loam

Sand

Gravel

Blue Shale

Rock

Blue Shale

Coal

Blue Shale

Water Sand

Blue Shale

Bottom Hole

Owner Nels Uhden

Address Terry, Mont.

Driller Ira C. Bond

Address Terry, Mont.

Date of Notice of Appropriation of Groundwater

Date well started June 14, 1960

Date Completed June 21

Type of well Drilled

Equipment Used Cable

(dug, driven, bored or drilled)

(Churn, drill, rotary or other)

Water Use: Domestic ☒ Industrial ☐

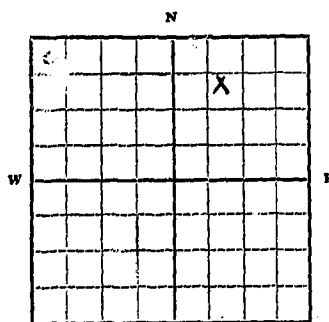
Municipal ☐ Drainage ☐

Stock ☐ Other ☐

Irrigation ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
	7" O. D.	Surface	25'			
	4"	Surface	64'	5/16" Burred	50'	60'



NE
1/4 Sec 34 T. 14 N. R. 51 E.
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 40 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 55 feet at 4 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Pump

Length of Test

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Show exact depth of bottom.

Driller's License Number

Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

5053

10

of the property in 1959 and 1960.

RECEIVED
STATE ENGINEER
84729

1944

FILED
at 9:30 o'clock A.M.
JUL 10 1963
County Court
Deputy
Fee 72.02 pd

GROUNDWATER INDEX

Page ____ of ____

County PRAIRIE Twp. 13N Rge. 45E

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GW

File No. 84946

DUPLICATE

T. 12 N. R. 45
County Blaine

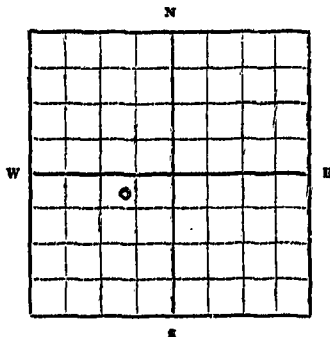
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 14 1963

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. John F. PFAFF of Crow Rock Rte. Miles City
(Name of Appropriator) (Address) (Town)
County of Blaine State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 SW Sec. 10, T. 13, R. 45

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1915

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal well on well at location indicated on map

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater about July 1st 1915

8. The depth of water table 10 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
2 1/2 in. casing set to 30 ft
handmill, 3 ft cylinder 1 ft pipe

10. The estimated amount of groundwater withdrawn each year 1,000,000 gals

11. The log of formations encountered in the drilling of each well if available not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record unknown

Signature of Owner John F. Paff

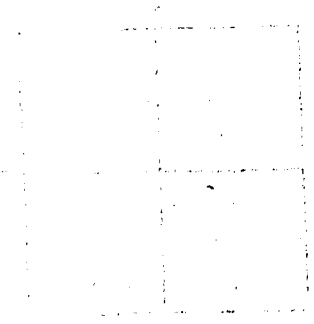
Date 10-2-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

6336



FILED	
at _____	o'clock _____ M.
OCT 10 1963	
County Clerk	
Fee _____	Deputy _____

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File No. 84945

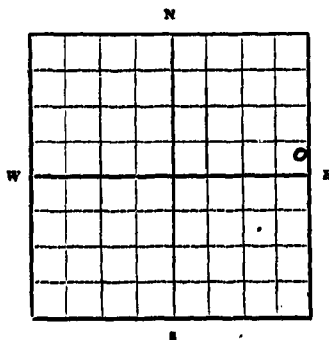
DUPLICATE

T. 13 R. 45
County Blaine

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
OCT 14 1963
STATE ENGINEER

1. John F. PFAFF, of Crow Res Pte Miles City
(Name of Appropriator) (Address) (Town)
County of Blaine State of Montana
I have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NE Sec. 11, T. 13, R. 45

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Stockwater
3. Date or approximate date of earliest beneficial use; and how continuous the use has been June 1st 1953
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gal per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Handmill on well at location indicated on map
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater About June 1st 1953
8. The depth of water table 40 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Handmill, 3 in casing set to 160 ft, 1 1/2 pipe
10. The estimated amount of groundwater withdrawn each year 1,000,000 gals
11. The log of formations encountered in the drilling of each well if available not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record unknown

Signature of Owner

John F. PFAFF
Date 10-9-1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

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[illegible]

IN RE: [illegible]

IN RE: [illegible]

IN RE: [illegible]

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IN RE: [illegible]

IN RE: [illegible]

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IN RE: [illegible]

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IN RE: [illegible]

IN RE: [illegible]

IN RE: [illegible]

IN RE: [illegible]

FILED
at _____ o'clock _____ M.
OCT 10 1963
County Clerk
Deputy
Fee _____

GW

File No. 84942

DUPLICATE

T. 13 R. 4County DeWitt

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

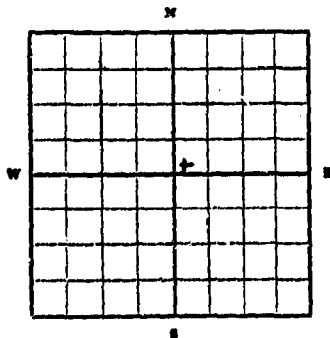
RECEIVED
OCT 14 1963

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

John F. PFAFF of CROW ROCK RTE MILES CITY
(Name of Appropriator) (Address) (Town)

County of DeWitt State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



S.W. 44E. Sec. 14, T. 13 R. 4S

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. Right to use on which the claim is based
household & livestock

3. Date or approximate date of earliest beneficial use; and how continuous the use has been June 1st 1946
continuous since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Electric pump on well at
location indicated on map

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June 1st 1946

8. The depth of water table 20 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
4 in. iron casing set to 110 ft.
& electric pump

10. The estimated amount of groundwater withdrawn each year 1,000,000 gal.

11. The log of formations encountered in the drilling of each well if available
not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
none

Signature of Owner John F. Pfaff

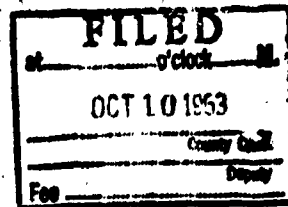
Date 10-1-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quaduplicate for the Appropriator.

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GW

File No. 84944

DUPLICATE

T. 13 N. R. 45 E. 17

County Bozeman

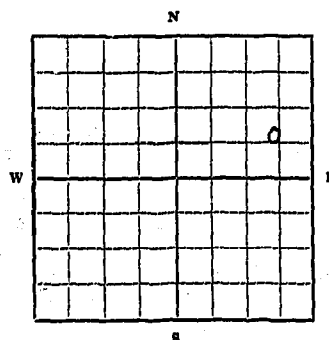
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
OCT 14 1963

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. John F. PFAFF of Crow Rock Pte 7 miles City
(Name of Appropriator) (Address) (Town)
County of Bozeman State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NE Sec. 17, T. 13, R. 45

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based stock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Mar 1st 1952
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gal per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Windmill on well at location indicated on map
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater about Mar 1st 1952
8. The depth of water table 50 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 4 in Iron casing set to 110 ft & Electric pump
10. The estimated amount of groundwater withdrawn each year 1,000,000 gal
11. The log of formations encountered in the drilling of each well if available not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record unknown

Signature of Owner

John F. PFAFF
Date 10-9-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

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STATE ENGINEER

Department of Transportation

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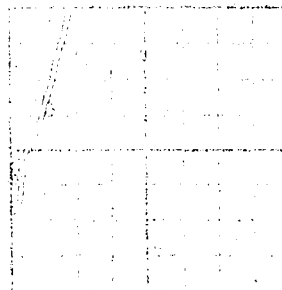
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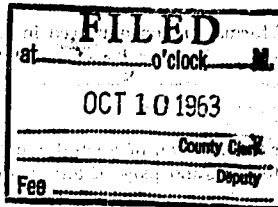
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File No.

84947

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DUPLICATE

County

Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

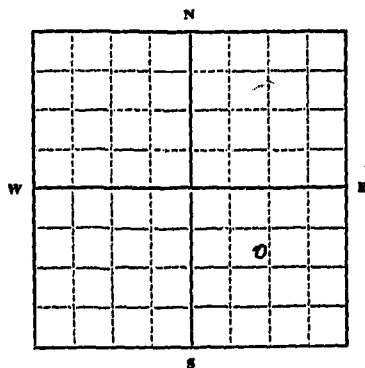
RECEIVED
OCT 14 1963

STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. JOHN F PFAFF, of Crow Rock Rte Mike City
(Name of Appropriator) (Address) (Town)
County of Prairie State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



N.W. 1/4 Sec. 18, T. 13, R. 45

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based.

stockwater

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.

May 1st 1958

4. The amount of groundwater claimed (in miner's inches or gallons per minute).

5 gal per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.

none

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.

Hand drill on well at location indicated on map

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.

May 1st 1958

8. The depth of water table.

20 ft

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.

4 in Iron casing set to 250 ft
Hand drill, 2 1/2 in Cylinders, 1/2 in pipe

10. The estimated amount of groundwater withdrawn each year.

1,000,000

11. The log of formations encountered in the drilling of each well if available.

not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

unknown

Signature of Owner

John F. Pfaff

Date 10-10-1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

6338

HABRILIA, DIA 4

FILED
at _____ o'clock _____ M.
OCT 10 1963
County Clerk
Deputy
Fee _____

GROUNDWATER INDEX

Page of

County PRAIRIE Twp. 13N Rge. 46E

[illegible]

File No. _____

DUPLICATE

T. 13 N. R. 46 E.

County Prairie

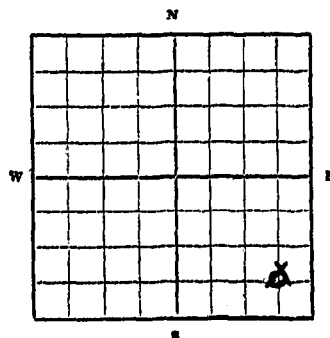
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
FEB 18 1963
STATE ENGINEER

1. Bureau of Land Management, of Box 960, Miles City
(Name of Appropriator) (Address) (Town)

County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 SE. Sec. 2 T13N R46E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Livestock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1936 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 gal/min.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Windmill - SE 1/4 of Sec. 2

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1936

8. The depth of water table Unknown

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled well-40' tower with 10' head.

10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.

11. The log of formations encountered in the drilling of each well if available Not Available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

District Manager
Arthur J. Hunsicker

Date 2-2-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

84302

FILED
at 4:10 o'clock P. M.
FEB 15 1963
County Clerk
Deputy
Fee 2.00

File No. _____

DUPLICATE

T. 13 N. R. 46 E.

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

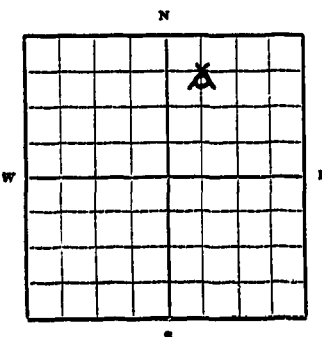
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED

STATE ENGINEER

45814

1. Bureau of Land Management of Box 960, Miles City
(Name of Appropriator) (Address) (Town)
County of Carter State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 4 T13N R. 46E

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based Livestock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1937 - continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 gal/min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof _____
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Windmill - NW 1/4 of Sec. 4

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1937
8. The depth of water table 70'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled well - 70' deep, standard 4" casing
10. The estimated amount of groundwater withdrawn each year 1,300,000 gal.
11. The log of formations encountered in the drilling of each well if available Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record _____

District Manager

Date _____

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

3662

84284

FILED	
at 4:10	o'clock P. M.
FEB 15 1963	
<i>[Signature]</i>	
County Clerk	
Fee 2.00	Deputy

File No. _____

STATE WATER CONSERVATION BOARD

T. 13 R. 46 S. 6

DUPLICATE

DEC 27 1956

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level _____)

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

0'-4' Topsoil

4'-20' Lt. Gray Shale

20'-23' Shifts Gravel

23'-47' Yellow Clay

47'-52' Coal

52'-65' Blu-Gray Shale

65'-85' Gray Sandstone

85'-93' Shale

Owner Grover Swift Address Crow Rock RanchDriller Joe Johnson Address Terry, Mont.

Date of Notice of Appropriation of Groundwater _____

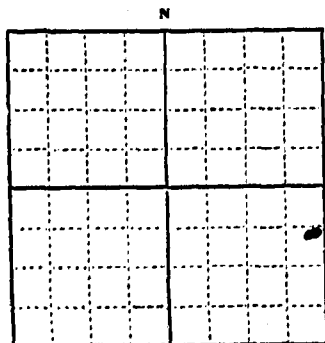
Date well started May 9, '66 Date Completed May 11, '66

Type of well Drilled Equipment Used Spudder
(aug, driven, bored or (Churn, drill, rotary or
drilled) other)

Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Stock ☒

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	4" I.D. 9 1/2" W.P.F.	0'	93'	Holes 3/8"	70'	93'



1/4 Sec. 6 T. 13 R. 46
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

93'

Static Water Level for non-flowing Well 47 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 65 feet at 30 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Bailer Length of Test 2 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation) _____

Gravel Packed - 72' to Cylinder

McGee #1

Seepage at 47'

154
Driller's License Number

Joe Johnson
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

41572

FILED
 at 9:20 o'clock A.M.
 DEC 22 1966
 County Clerk
 Deputy
 Fee \$2.00

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MAR 5 1971

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Owner H.A. Bureau of Land
Manager 1
Address Dillon City, Montana

For Administrator's Use	
File	<u>9-2-799</u>
	<u>3-4-71</u>
GW 1	

Date well started 11-9-70
completed 11-19-70

Type of well drilled
(Tap, driven, bored or drilled)

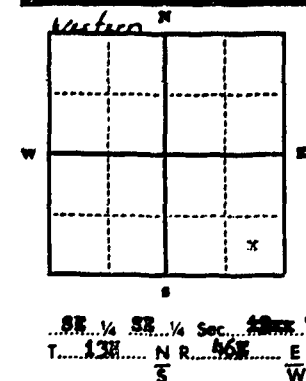
Equipment used cable tool
(Cable drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe _____
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL 1,000,000 Gal.

Size of Hole	Size and Weight of Casing	From 0 feet	To 0 feet	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	6 5/8 18.97	+ 18"	290	4-1/2"	125	130
					150	155
					180	185
					235	260



Static water level 125 ft.*
Pumping water level 145 ft.*
at 18 gallons per minute,
measured _____ minutes after pumping
began.
*Measured from ground level.
Well developed by baller
for 4 hours.
Power _____ Pump _____ HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE.
EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Briggs Drilling Contractor

Driller's Address Box 1083, Dillon, Montana 59725

Allen Briggs

LICENSE NO. 148

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground		(Elev. abt. to sea level)
From 0 feet	To 0 feet	
0	45	brown clay
45	125	gray clay
125	130	shale (a little water)
130	150	gray clay
150	155	shale (a little water)
155	180	gray clay
180	185	shale (a little water)
185	235	gray clay
235	260	gray sandy clay (some water)
260	290	gray clay

290

Show exact depth of bottom

148191

92799

Water Well Log
B. L. M.
to
The Public

FILED

11:30 o'clock

1971
John M. [Signature]
County Clerk
Deputy

Owner's Name
Address: Allen City, Montana

Date well started 11-9-79
completed 11-19-79

Type of well drilled

Equipment used cable tool
(Aug, driven, bored or drilled)

Water Use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe
USE: If used for irrigation, industrial, drainage or other. Explain,
state number of acres and location or other data (i.e. lot, block
and Addition).

ESTIMATED ANNUAL WITHDRAWAL 1,000,000 gal.

Size of Drilled Hole	Size and Type of Casing	From (Feet)	To (Feet)	Used Size (Feet)	From (Feet)	To (Feet)
8"	6 5/8"	0	500	4 1/2"	199	199

From (Feet)	To (Feet)	Remarks
180	185	coal (little water)
185	235	grey clay
235	260	grey sandy clay (some water)
260	290	grey clay

File No.

T. 13 R. 46 10

DUPLICATE

County Prarie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

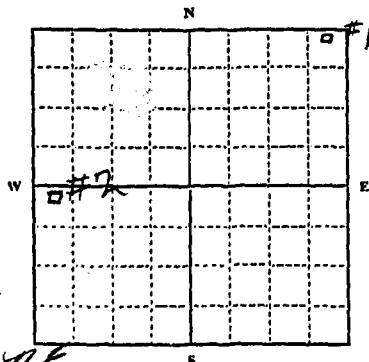
RECEIVED
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

I, JOHN HENDRICKSON, of Box 546, TERRY
(Name of Appropriator) (Address) (Town)
County of PRAIRIE State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE
SW Sec. 10 T. 13 R. 46

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

71688

2. The beneficial use on which the claim is based CATTLE AND HOUSE HOLD USE
3. Date or approximate date of earliest beneficial use; and how continuous the use has been JULY 1956 EVERY DAY OF THE YEAR
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3.5 gal. per minute for bath
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 2 cylindar pumps and a submersible pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. JULY 10, 1956 to JULY 28, 1956
8. The depth of water table. 60 ft #1 80 ft #2
9. So far as it may be available, the type, size, and depth of each well or the general specifications of any other works for the withdrawal of groundwater. #1 is a 140 ft in depth with a 4 casing. #2 is a 240 ft well in dept with a 14" casing.
10. The estimated amount of groundwater withdrawn each year. 18,144,000 gals
11. The log of formations encountered in the drilling of each well if available. not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner

Date

John Hendrickson
Dec. 30, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24859

RECEIVED
STATE ENGINEER

85517

85515

FILED	
at 4:45	o'clock P.M.
DEC 30 1963	
<i>E. Allen Johnston</i> County Clerk	
<i>James C. Johnston</i> Deputy	
Fee	2.00 pd

File No. _____

DUPLICATE

T. 13 N. R. 46 E.

County Prairie

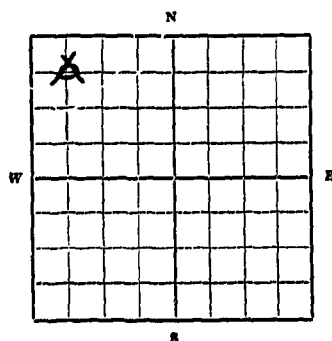
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
FEB 18 1963

STATE ENGINEER

1. Bureau of Land Management of Box 960, Miles City
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 NW Sec. 15, T. 13N. R. 46E.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Livestock use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1947 - continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 gal/min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof _____
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Windmill - NW 1/4 NW of Sec. 15

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1947
8. The depth of water table 134' and 250'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well was originally 134' deep, redrilled in 1957 to 250' - 33' tower with Samson mill.
10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.
11. The log of formations encountered in the drilling of each well if available Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record _____

District Manager
Arthur J. Jernigan

Date 1-22-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

3681

84303

FILED
at 4:50 o'clock P. M.
FEB 15 1963
County Clerk
Deputy
Feb 2 1963

File No. _____

DUPLICATE

T. 13 N. R. 46 E.

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

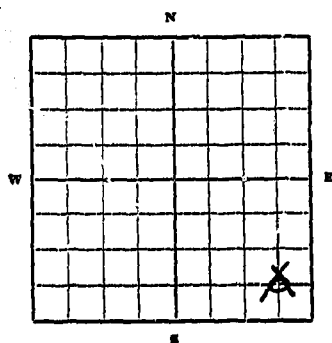
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED

STATE ENGINEER

1. Bureau of Land Management of Box 960, Miles City
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 18 T. 13 N. R. 46 E.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Livestock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Aug. 1958 - continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 gal/min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof _____
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Windmill - SE 1/4 Sec. 18

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 4/9/58 completed
8. The depth of water table 250' deep
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled well - 250' deep
10. The estimated amount of groundwater withdrawn each year 2,500,000 gal.
11. The log of formations encountered in the drilling of each well if available Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record _____

District Manager

Date 1-22-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

84283

FILED	
at 4:10	o'clock P.M.
FEB 15 1963	
County Clerk	
Fee 2.00	Deputy

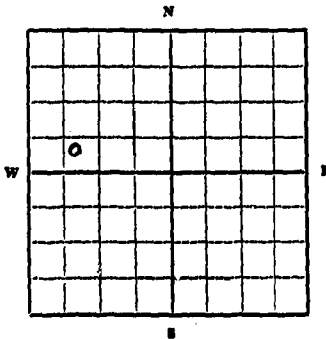
GW

File No. 94943

DUPLICATE

T. 13 N. E 21
R. 46
County BeaumontSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEERRECEIVED
OCT 14 1963Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. John F. PFAFF, of Crow Rock Rte Miles City
(Name of Appropriator) (Address) (Town)
County of Beaumont State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

SW 1/4 NW Sec 21 T. 13 R. 46

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based Stockwater
3. Date or approximate date of earliest beneficial use; and how continuous the use has been June 1st 1945
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 gal per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Handmill on well at location indicated on map
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater about June 1st 1945
8. The depth of water table 40 ft
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Handmill on well at location indicated on map
10. The estimated amount of groundwater withdrawn each year 1,000,000 gal
11. The log of formations encountered in the drilling of each well if available not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record unknown

Signature of Owner

John F. PFAFF
Date 10-9-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quaduplicate for the Appropriator.

6333

9110

7

RECEIVED

STANDARD

RECEIVED

RECEIVED

RECEIVED

RECEIVED

RECEIVED

RECEIVED

FILED
at _____ o'clock _____ M.
OCT 10 1963
County Clerk
Deputy
Fee _____

File No.

JUN 20 1967

T 13 N. R 46 E. 22

DUPLICATE

State _____
 Butcher _____
 Coyle _____
 Derfitt _____
 Eckert _____

PAID _____
 STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

County Prairie

Top of Ground

(Elev. above sea level.....)
 0-25' Shale, Lt. Yellow
 25-30' Shale & Coal, Mk. Brown
 30-40' Coal, Black
 40-55' Shale & Coal, Lt. Brown
 55-60' Shale, Lt. Brown
 60-65' Shale, Gray
 65-70' Shale, Lt. Yellow
 70-100' Shale, Gray
 100-105' Shale, Lt. Brown
 105-120' Shale, Gray
 120-125' Shale, Lt. Brown
 125-135' Shale, Gray
 135-160' Shale, Brown
 160-175' Shale, Gray
 175-180' Shale, Mk. Gray
 180-230' Shale, Gray
 230-260' Shale & Coal, Mk. Brown
 260-270' Shale, Gray
 270-315' Sandstone, Gray, Static Water Level
 315-320' Coal, Black
 320-335' Shale, Gray

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Bureau of Land Management Address Miles City, MontanaDriller Joe Johnson Address Terry, Montana

Date of Notice of Appropriation of Groundwater.....

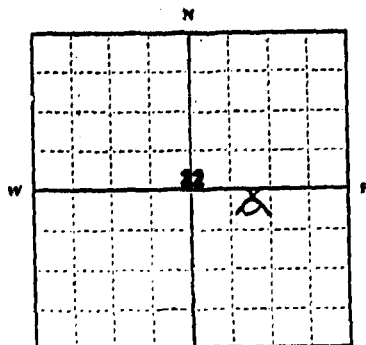
Date well started 11/14/66 Date Completed 11/22/66

Type of well Drilled Equipment Used Cable tool
 (dug, driven, bored or (Churn, drill, rotary or
 drilled) other)

Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐
 Industrial ☐ Drainage ☐ Stock ☒

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
270-315' Sandstone, Gray, <u>Static Water Level</u>	8" I.D.	+ 1	335	Slots	140	160
	19.18" P/P			8" & 4 rows	307	328



NW 1/4 Sec. 22 T. 13N R. 46E

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

22 Well (M2-R-1859)

Static Water Level for non-flowing Well 303 feet.Shut-in Pressure for Flowing Well N.A.Pumping Water Level 310 feet at 8 gal. per minute.Discharge in gal. per min. of flowing well N.A.How Tested Rolling Length of Test 1 Hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) N.A.

Driller's License Number 154Driller's Signature Joe Johnson

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

42,101

Fee 222

CV

File No.

DUPLICATE

RECEIVED

T. 13 N. R. 46 E.

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

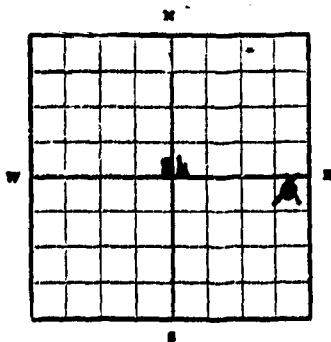
RECEIVED

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Bureau of Land Management, of Miles City, Montana
(Name of Appropriator) (Address) (Town)
County of Prairie State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 24, T. 13 N. R. 46 E.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based
Livestock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
Sept. 1, 1962
8 months grazing season

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
10 gals. per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Electric pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
7/22/62 - 9/62

8. The depth of water table
370'

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled well with 4" casing to a depth of 234', drilled from 234' to 363' and cased with 3" casing.

10. The estimated amount of groundwater withdrawn each year
450,000 gallons per year

11. The log of formations encountered in the drilling of each well if available
0-10' yellow clay; 10-20' gravel; 20-245' gumbo clay; 245-255' sand; 255-275' gumbo clay; 275-280' white clay or gray gumbo; 280-290' Sandstone with water, 3 gals/min. 290-gumbo clay and the log from thereon unknown.

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

Bureau of Land Management
Signature of Owner: *Jerry M. White*
Date: *May 15, 1962*

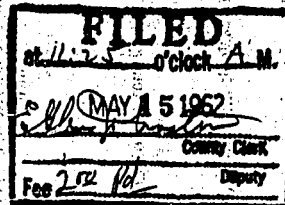
Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quaduplicate for the Appropriator.

83202

Water Well Log
Bureau of Land Management
to
The Public



GROUNDWATER INDEX

Page ____ of ____

County PRAIRIE Twp. 13N Rge. 47E

[illegible]

REC'D MAR 30 1966

File No.

T. 13^N R. 47^E 3

DUPLICATE

STATE WATER CONSERVATION BOARD

APR 4 1966

County DeWitt

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Bille _____

Butzerin _____

Coyle _____

Darlington _____

Dickert _____

**Notice of Completion of Groundwater
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level _____)

black sand loam
foot of yellow shale
quick sand (little water)
gray shale
sandy blue shale
water sand

Owner Solly Morris Address Terry, MontanaDriller Ira C. Bond Address Terry, MontanaDate of Notice of Appropriation of Groundwater November 22/65Date well started 11/22/65 Date Completed 11/25/65

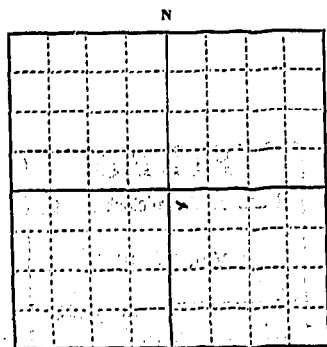
Total Depth 50 feet

Type of well Drilled Equipment Used Cable
(dug, driven, bored or drilled) (Churn, drill, rotary or other)Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Stock ☒

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 @ 5/8" 6" ID	surface	10'				
5 @ 5/8" 4" ID	10'	50'		3/16"	43	50

11/27/65



No. 1/311 Sec. 3 T. 13 R. 47

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

50 feet

Show exact depth of bottom.

Static Water Level for non-flowing Well 30' feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 22' feet at 6 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested pump Length of Test 6 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) _____

Driller's License Number

Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

40935

[illegible]

☐ not a dog
☐ dog
☐ cat
☐ bird
☐ fish
☐ insect
☐ other

[illegible][illegible]

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

1971

970(11) 100 (100)

There is no other person named in the document.

Stamps to pay for the transportation of the body to the place of burial.

As a result, you have not been able to make any progress in your studies.

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

~~CONFIDENTIAL~~

87921

FILED
at 3:45 o'clock P. M.
MAR 28 1966
County Clerk
Deputy
Fee 2.00

File No. _____

JUN 29 1967

T. 13 N. R. 47 E.

DUPLICATE

Billie _____ McDermott _____
 Butzerin _____ McNulty _____
 Coyle _____ Morton _____
 Darlington _____ Sullivan _____
 Dickert _____

County Prarie

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level _____)

0-5' Sandy Shale, Yellow

5-10' Sandy Shale, Yellow

10-15' Sandy Shale, Yellow

15-20' Sandy Shale, Yellow

20-25' Sandy Shale, Yellow

25-30' Sandy Shale, Yellow

30-35' Sandy Shale, Yellow

35-40' Sandy Shale, Yellow

40-45' Sandy Shale, Lt. Brown

45-50' Sandstone, Lt. Brown

50-55' Sandy Shale, Lt. Gray

55-60' Sandy Shale, Lt. Brown

60-80' Sandy Shale, Lt. Gray

80-90' Shale, Lt. Gray

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Bureau of Land Management Address Missoula City, MontanaDriller Joe Johnson Address Terry, Montana

Date of Notice of Appropriation of Groundwater _____

Date well started 11/5/66 Date Completed 11/10/66Type of well Drilled Equipment Used Cable Tool

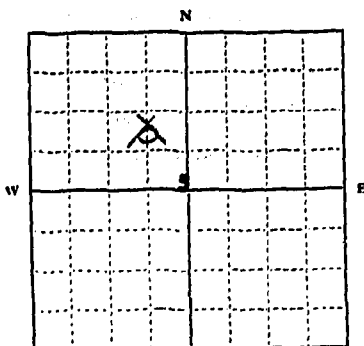
(dug, driven, bored or drilled)

(Churn, drill, rotary or other)

 Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐
 Industrial ☐ Drainage ☐ Stock ☒

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	6" I.D. 19.184 7/8	+ 1	90'	Holes & Slots	36'	55'



SE 1/4 NW Sec 3 T13N R. 47E
 Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Cherry Creek Well (M2-R-1858)

Static Water Level for non-flowing Well 45 feet.Shut-in Pressure for Flowing Well N.A.Pumping Water Level 65 feet at 4 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Drilling Length of Test 2 Hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation) N.A.Driller's License Number 154Driller's Signature Joe Johnson

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

42,102

FILED
at 9:40 o'clock A.M.
JUN 28 1967
E. Blair Johnson
County Clerk
W. Falkenstein
Deputy
Fee \$2.00

File No.

T. 13 N. R. 47 E.

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER MAY 27 1965

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
Sand & clay
(Elev. above sea level.....3210.....)

Gravel & clay

Clay

Sandstone, hard

Clay & coal

Sand & clay

Static water level
Clay, gray, hard

Clay & coal

Clay & sand

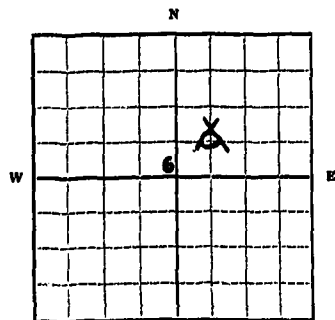
Sandstone, gray, water

Bottom of hole

Owner Bureau of Land Management Address Miles City, MontanaDriller Singer & Sando Address Billings, MontanaDate of Notice of Appropriation of Groundwater May 13, 1965Date well started 5/13/65 Date Completed 5/13/65Type of well Drilled Equipment Used Churn & dash
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 7/8	6 5/8 O.D.	0	164	1/8" 4 rows	133	159



SW 1/4 NE Sec. 6 T13N R47E

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Ash Well
R. J. Reukguf
M2-R-1406

Static Water Level for non-flowing Well.....105.....feet.

Shut-in Pressure for Flowing Well

Pumping Water Level.....120.....feet at.....5.....gal. per minute.

Discharge in gal. per min. of flowing well

How Tested.....Bailing..... Length of Test 1 hour

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Montana #2

Driller's License Number

/s/ Roy Singer
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

39164

Mr. Mitchell for the purpose of

184

THE NATIONAL ARCHIVES
COLLEGE PARK, MARYLAND

SECRET

FILED
at 11:20 o'clock P.M.
MAY 26 1965
William H. Hester
County Clerk
Fee 2.00 PD Deputy

GW2

File No.

T. 13 N. R. 47 E. 15

DUPLICATE

County PrairieSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEERRECEIVED
MAY 27 1965Notice of Completion of Groundwater
Appropriation by Means of Well ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

10 Top of Ground
Clay & sand
(Elev. above sea level 3085)

20

30 Clay & gravel

40

50 Clay & coal

60

70

80

90

100

110 Clay & coal

120 Clay & sand

130

140

150 Clay & shale

160

170 Clay & sand

180

190 Static water level

200 Sandstone gray water

210

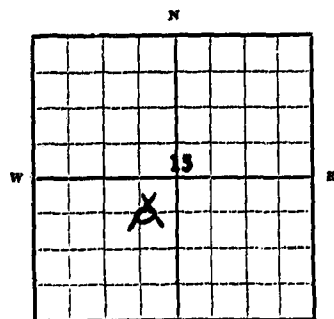
220

230 Bottom of hole

Owner Bureau of Land Management Address Missoula City, MontanaDriller Sando & Singer Address Billings, MontanaDate of Notice of Appropriation of Groundwater May 18, 1965Date well started 5/15/65 Date Completed 5/18/65Type of well Drilled Equipment Used Churn & dash
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 7/8	6 5/8 O.D.	0	234	1/8" 4 rows	194	230



NE 1/4, SW Sec. 15 T. 13N R. 47E

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Little Sheep NW. No. 1
Folly A. Norris, Permittee
M2-E-1405Static Water Level for non-flowing Well 194 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 210 feet at 5 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Balling Length of Test 1 hour

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

Montana #2

Driller's License Number

/s/ Roy Singer
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

39161

RECEIVED CLERK OF SUPERIOR COURT

FILED MAY 28 1965

87081

FILED
at 1:15 o'clock P.M.
MAY 28 1965
County Clerk
Deputy
Fee 2.00 Pd

CLERK OF SUPERIOR COURT
COUNTY OF COCONINO
ARIZONA

File No. 91330T. 23 R. 23

DUPLICATE

MONTANA WATER RESOURCES BOARD

RECEIVED

County P241212

JUL 23 1969

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level)

**Notice of Completion of Groundwater
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

9- 10 Yellow loam & gravel
 10- 18 Blue shale
 18- 25 Gray shale
 25- 38 Coal
 38- 70 Sandy gray shale
 70- 95 Fine tight gray sandstone
 95- 98 Blue shale
 98-103 Coal
 103-108 Gray shale

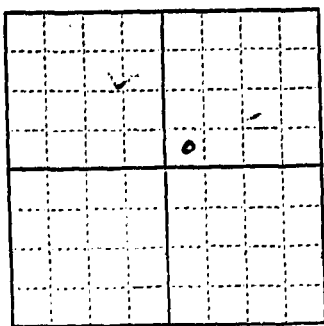
Owner Walt Baukauf Address TerryDriller Joe Johnson Drig. Address Terry

Date of Notice of Appropriation of Groundwater

Date well started 7/1/69 Date Completed 7/2/69Type of well Drilled Equipment Used Cable Tool
 (dug, driven, bored or (Churn, drill, rotary or
 drilled) other)Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐
 Industrial ☐ Drainage ☐ Stock ☒

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 5/8	4 1/2" CP	0	108	slots	63	108



1/4 Sec. 22 T. 13N R. 47E
 Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 71 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 80 feet at 5 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Ballor test Length of Test 1 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

154
 Driller's License Number

Joe Johnson
 Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

15450

File No. 91330

T. 23 R. 23

DUPLICATE

MONTANA WATER RESOURCES BOARD
RECEIVED

County PRAIRIE

JUL 23 1969
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level)

**Notice of Completion of Groundwater
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

0- 10 Yellow loam & gravel
10- 18 Blue shale
18- 25 Gray shale
25- 30 Coal
30- 70 Sandy gray shale
70- 95 Fine tight gray sandstone
95- 98 Blue shale
98-105 Coal
105-108 Gray shale

Owner Walt Benkauf Address Terry

Driller Joe Johnson Drig. Address Terry

Date of Notice of Appropriation of Groundwater

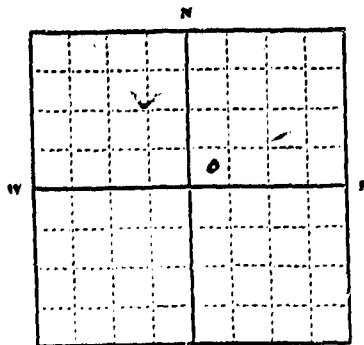
Date well started 7/1/69 Date Completed 7/2/69

Type of well Drilled Equipment Used Cable Tool
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Other ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Stock ☒

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 5/8	4 1/2" CP	0	108	slots	68	108



1/4 Sec. 22 T. 13 N. R. 47 E
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 71 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 88 feet at 5 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer test Length of Test 1 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation)

154
Driller's License Number

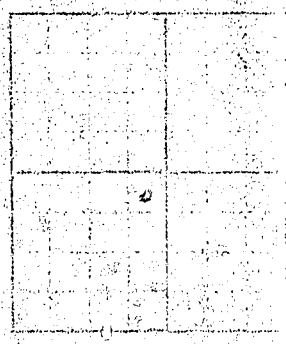
Joe J. Johnson
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

15450



This is a copy of the original record of the well.
 It is not to be used for any other purpose.
 The original record is on file in the office of the
 State Engineer at Lansing, Michigan.
 A copy of this record is being furnished to you for
 your information.
 Sincerely,
 State Engineer

FILED
 JUL 22 1969
 John D. Smith
 Deputy
 Fee \$2.00

05-03-1969
 05-03-1969
 05-03-1969

Date of Notice of Appropriation of Groundwater

Date well started

Type of well (aug. driven, bored or drilled)

Water Use: Domestic ☐ Industrial ☐ Municipal ☐ Drainage ☐ Other ☒ Stock ☒ Irrigation ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which water rises in the well.

Time of Day	Wind	Temp	Bar	Humid	Cloud	Wind	Temp	Bar	Humid	Cloud
5 5/8	47°	63°	0	108	61%	60	108	61%	60	108

T. 13

R. 47

26

County PringleMONTANA BUREAU OF MINES AND GEOLOGY
Butte, MontanaRECEIVED
JAN 3 1962
STATE ENGINEER

WATER WELL LOG

			X

Owner Charles Harnae Address Terry, MontanaDriller Ira C. Bond Address Terry, MontanaDate Started Sept. 13, 1961 Date Completed Sept. 16, 1961Location: Sec. 26 T. 13 R. 47 $\frac{1}{4}$ Sec. 36 of the SEType of well drilled Equipment used Cable Tool
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐Industrial ☐ Drainage ☐ Other: _____Casing: 0 ft. to 188 ft. Type Steel Size 4 in. I. D.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 125 to ft. 135 Ft. 168 to ft. 182Type of screen or perforations 5/16 in. holes cut three in. apart with cutting torchStatic Water level, for non-flowing well: 75 ft. up with pumps down to 3 feet.

Shut-in pressure, for flowing well: _____ lb./sq. in. on: _____ (date)

Pumping water level 180 feet at 3 gal. per min.How tested: with bailerLength of test for 5 hours

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

FILED	at 9 17 A	Sheet	A M
DEC 29 1961			
County Clerk			
Deputy			
Filed	1 Et	3d	

82791

File No.

T. 13^N R. 47^E

DUPLICATE

County. Prairie

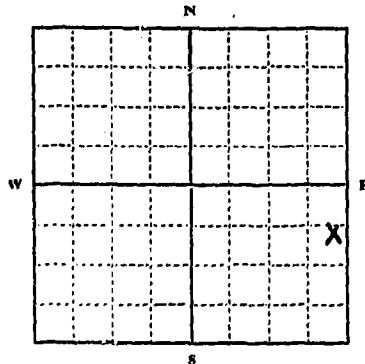
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 20 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Houghlin Lintick Co. of 111 N. Center Missoula City
(Name of Appropriator) (Address) (Town)
County of Prairie State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 29 T. 13 R. 47

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based.....

Stock watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....

1957 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute).....

5 gallons minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.....

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....

Electric pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....

Commenced 1957 - completed 1957

8. The depth of water table.....

270 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.....

Drilled - 4 inch casing - 310 ft deep

10. The estimated amount of groundwater withdrawn each year.....

432,000 gallons

11. The log of formations encountered in the drilling of each well if available.....

Not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.....

Houghlin Lintick Co.
Signature of Owner Don Houghlin
Date Dec. 18 - 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

10968

85359

FILED	
at 11:10 o'clock A.M.	
DEC 18 1963	
<i>[Signature]</i> County Clerk	
Fee 2.00 pd.	Deputy

Page of

County PRAIRIE ~~BL~~ Twp. 13N Rge. 48E

[illegible]

File No.

DUPLICATE

T. 13 N. R. 43 E.

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

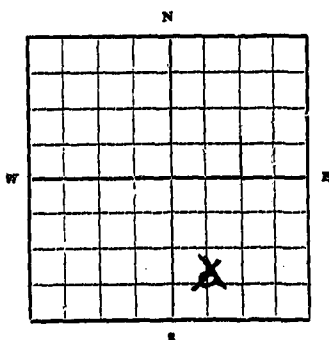
Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
FEB 18 1963

STATE ENGINEER

84302

1. Bureau of Land Management of Box 960, Miles City
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 SE Sec. 1 T13N R. 43E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based Livestock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1946 - Continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 gal/min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Windmill - SW 1/4 of Sec. 1
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1946
8. The depth of water table 110'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled well - 110' deep, with tower & head
10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.
11. The log of formations encountered in the drilling of each well if available
Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record

District Manager
[Signature]

Date 1-22-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

3683

84305

FILED	
at 4:10	o'clock P. M.
FEB 15 1963	
County Clerk	
Fee 2.00	Deputy

File No.

DUPLICATE

T. 13 N. R. 42 E.

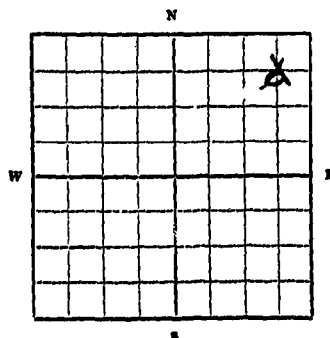
County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1981)

RECEIVED
FEB 18 1963
STATE ENGINEER

1. Bureau of Land Management, of Box 960, Miles City
(Name of Appropriator) (Address) (Town)
County of Custer State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4, Sec. 8, T13N R42E

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based Livestock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1947 - continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 2 gal/min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Windmill - NE 1/4 of Sec. 8
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1947
8. The depth of water table 110'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled - NE 1/4 of Sec. 8
10. The estimated amount of groundwater withdrawn each year 1,500,000 gal.
11. The log of formations encountered in the drilling of each well if available Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

District Manager
Arthur W. [Signature]

Date 1-22-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quaduplicate for the Appropriator.

3682

642114

FILED	
at 4:10	o'clock P. M.
FEB 15 1963	
<i>[Signature]</i>	
County Clerk	
Fee 2.00	Deputy

GW

Approved Stock Form—State Publishing Co., Helena, Montana—2224

File No. _____

T 13th R 48th
County Prairie

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

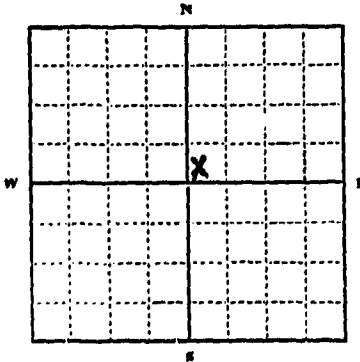
R JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

I, Harold Cole, of Terry,
(Name of Appropriator) (Address)
County of Prairie State of Montana (Town)
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4, Sec. 8, T12 R48

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based
Stock watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
1956 - Continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
15 gallons minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
Commenced & completed 1956

8. The depth of water table
40 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled - line casing - 50 feet deep

10. The estimated amount of groundwater withdrawn each year
500,000 gallons

11. The log of formations encountered in the drilling of each well if available
Not available

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
None

Signature of Owner

Harold Cole
Date Dec. 31-1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24962

85623

FILED	
at 7 o'clock	A.M.
DEC 31 1963	
<i>[Signature]</i>	County Clerk
22	Deputy